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APPLICATION NO.	FILING DATE 12/21/2001		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/036,652			Delwin Jackson	5392	
	7590	01/27/2004		EXAMINER	
Milliken & C	Company	/	LEVY, NEIL S		
P.O. Box 1972	2				Y
Spartanburg,	SC 2930	04	ART UNIT	PAPER NUMBER	
			1616		

DATE MAILED: 01/27/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	on No.	Applicant(s)					
	Office Action Summers	10/036,65	2	JACKSON ET AL.					
	Office Action Summary	Examiner		Art Unit					
		Neil Levy		1616					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE									
Status									
	Responsive to communication(s) filed or								
	•	≸This action is no							
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims 16-25									
4) 🖳) Claim(s) 1-5, (is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)	5) Claim(s) is/are allowed.								
6)	5) Claim(s) is/are allowed. 6 Claim(s/_5/6 is/are rejected.								
7) <u> </u> 8)	Claim(s) is/are objected to. Claim(s) is/are subject to restriction and/or election requirement.								
Application Papers									
9) The specification is objected to by the Examiner.									
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.									
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
44)[]	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority under 35 U.S.C. §§ 119 and 120									
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received.									
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.									
Attachment	(s)								
1) Notice 2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-9 nation Disclosure Statement(s) (PTO-1449) Paper I	48) No(s)	4) Interview Summary (5) Notice of Informal Pa 6) Other: .						

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The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 16-23, 25 are rejected under 35 U.S.C. 112, first paragraph, because the best mode contemplated by the inventor has not been disclosed. Evidence of concealment of the best mode is based upon a reading of the claims reveals the claim 16 is actually a substrate, unidentified except by the relative word "hard". The substrate is then subjected to treatment, with a film, but the claim is still to a substrate, not a film-coated substrate, and the affects claimed, a kill rate, are attributed to the substrate, not the substrate-film.

Claims 16-23, 25 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The rejection of record in view of the claim reading, above, of a substrate that is attributed the kill rate, is maintained as applicant does not show kill rate of the substrate alone.

Claims 1-5, 16-25 are rejected under 35 U.S.C. 102(a and e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Sherman-US2002/000514

Sherman provides antimicrobial sol-gel films, (0079) applicable to hard surfacesroofs (0084, **6**219) and to particles (0204-0205). Bacteria are killed (0086, 0087) utilizing silver (0095) although the instant test was not used to determine kill rate to Application/Control Number: 10/036,652

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Klebsiella, we are told the efficacy is at least ½ as good as (0099) that of the photocatylst-(0095) alone. Preparation of the films is disclosed at page 10, with heating 400-700° (0178) examples show a kill rate of > .5, as 0.03 E.coli were identified compared to non treated of 1 (0226) even with the Titanium dioxide, rather than silver, inorganic. See Fig. 6. One would expect the known antimicrobial silver to provide at least as good a kill rate, and equivalent to E.coli, of tasted with Klebsiella.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Neil Levy whose telephone number is 571-272-0619. The examiner can normally be reached on Tuesday- Friday 7:00 am to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman Page can be reached on 571-272-0602. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 308-1235

Levy/tgd

January 23, 2004

NEIL'S LEVY PRIMARY EXAMINER